

# CRYOMECH

## Cryorefrigerator Specification Sheet

### PT410-RM with CP289C

#### Cold head

Cooling capacity @ 50 and 60 Hz:  
2<sup>nd</sup> stage and 1<sup>st</sup> stage combined

PT410-RM

0.9W @ 4.2K with 31.5W @ 45K

Lowest temperature

2.8K with no load

Cool down time

60 minutes to 4K

Total weight

48 lb (21.8 kg)

Expander

27 lb (12.2 kg)

Remote motor

12 lb (5.4 kg)

Reservoir volumes

9 lb (4.1 kg)

Dimensions

See cold head line drawing

#### Compressor package

CP289C, available as water cooled only

Weight

295 lb (134 kg)

Dimensions - L x W x H

27 x 19 x 24.5 in (69 x 48 x 62 cm)

Electrical rating

220/230 or 460VAC, 3Ph, 60Hz // 200/220 or 380/420VAC, 3Ph, 50Hz

Power consumption @ steady state

8.9 kW // 8.0 kW

Cooling water flow rate

Minimum flow 2.3 GPM (9 LPM) @ 80°F (27°C) maximum temperature

#### Flexible lines

Standard length

66 ft (20.1 m)

Weight per pair

72 lb (32.7 kg)

#### System parameters

Helium pressure

220 ± 5 PSIG (15.2 ± .34 bar) @ 60 Hz

250 ± 5 PSIG (17.2 ± .34 bar) @ 50 Hz

Ambient temperature range

45°F to 100°F (7 to 38°C)

#### Maximum sound level

Water cooled

70 dBA @ 1 meter

#### Shipping crate

Weight

Wood box

650 lb (297 kg)

Dimensions - L x W x H

48 x 40 x 59 in (122 x 102 x 150 cm)